

SEQUENCE LISTING

<110> Ruoslahti, Erkki
Pasqualini, Renata
Rajotte, Daniel

<120> Methods of Identifying Lung Homing Molecules Using
Membrane Dipeptidase

<130> P-LJ 4377

<140>

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<150> 09/042,107

<151> 1998-03-13

<160> 452

<170> PatentIn Ver. 2.0

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Leu Pro Arg Tyr Leu Leu Ser
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Asp Xaa Cys Xaa Asp Ile Trp Cys Leu
1 5

<210> 346
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 346
Gln Pro Cys Arg Ser Met Val Cys Ala
1 5

<210> 347
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 347

Lys Thr Cys Val Gly Val Arg Val
1 5

<210> 348

<211> 9
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 348

Trp Ser Cys His Glu Phe Met Cys Arg
1 5

<210> 349

<211> 8
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 349

Cys Ser Lys Leu Met Met Thr Cys
1 5

<210> 350

<211> 9
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 350

Leu Thr Cys Trp Asp Trp Ser Cys Arg
1 5

<210> 351

<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 351
Ser Leu Cys Arg Leu Ser Thr Cys Ser
1 5

<210> 352
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 352
Lys Thr Cys Ala Gly Ser Ser Cys Ile
1 5

<210> 353
<211> 9
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 353
Val Ile Cys Thr Gly Arg Gln Cys Gly
1 5

<210> 354
<211> 8
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<213> Artificial Sequence

<220>
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<400> 354
Asn Pro Cys Phe Gly Leu Leu Val
1 5

<210> 355
<211> 9
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<220>
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<400> 355
Ser Leu Cys Thr Ala Phe Asn Cys His
1 5

<210> 356
<211> 9
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<220>
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<400> 356
Arg Thr Cys Thr Pro Ser Arg Cys Met
1 5

<210> 357
<211> 9
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 357
Gln Ser Cys Leu Trp Arg Ile Cys Ile
1 5

<210> 358
<211> 9
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<213> Artificial Sequence

<220>
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<400> 358

Gln Tyr Cys Trp Ser Lys Gly Cys Arg
1 5

<210> 359
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 359
Leu Gly Cys Phe Pro Ser Trp Cys Gly
1 5

<210> 360
<211> 9
<212> PRT
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<220>
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<400> 360
Val Thr Cys Ser Ser Glu Trp Cys Leu
1 5

<210> 361
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 361
Arg Leu Cys Ser Trp Gly Gly Cys Ala
1 5

<210> 362
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 362

Ser Thr Cys Ile Ser Val His Cys Ser

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<210> 363

<211> 9

<212> PRT

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<400> 363

Glu Val Cys Leu Val Leu Ser Cys Gln

1

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<210> 364

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

<400> 364

Ile Ala Cys Asp Gly Tyr Leu Cys Gly

1

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<210> 365

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 365

Arg Asp Cys Val Lys Asn Leu Cys Arg

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<211> 9
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<220>
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<210> 367
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1 5

<210> 368
<211> 9
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<220>
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<400> 368
Ile Arg Cys Trp Gly Gly Arg Cys Ser
1 5

<210> 369
<211> 9
<212> PRT
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<220>
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<400> 369
Ile Pro Cys Ser Leu Leu Gly Cys Ala
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<210> 370
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<212> PRT
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<210> 371
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<220>
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<210> 372
<211> 9
<212> PRT
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<210> 373
<211> 9
<212> PRT
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<220>
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<400> 373
Thr Leu Cys Pro Leu Val Ala Cys Glu
1 5

<210> 374
<211> 9
<212> PRT
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<220>
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<400> 374
Ser Ala Cys Trp Leu Ser Asn Cys Ala
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<210> 375
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
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<400> 375
Ser Glu Cys Tyr Thr Gly Ser Cys Pro
1 5

<210> 376

<211> 9
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<220>
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<400> 376
Gly Leu Cys Gln Glu His Arg Cys Trp
1 5

<210> 377
<211> 9
<212> PRT
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<220>
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<400> 377
Val Glu Cys Gly Phe Ser Ala Val Phe
1 5

<210> 378
<211> 9
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<220>
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Glu Asp Cys Arg Glu Trp Gly Cys Arg
1 5

<210> 379
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 379
His Trp Cys Arg Leu Leu Ala Cys Arg

1

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<210> 380
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 380
His Lys Gly Gln Val Tyr Ser
1 5

<210> 381
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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Phe Ser Asp Val His Phe Trp
1 5

<210> 382
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 382
Arg Gly Ile Phe Val Ser Ser
1 5

<210> 383
<211> 7
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 383

Pro Lys Val Lys Leu Ser Glu
1 5

<210> 384

<211> 7
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 384

Leu Arg Phe Trp Gln Glu Ser
1 5

<210> 385

<211> 7
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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 385

Ile Trp Thr Val Val Gly Gln
1 5

<210> 386

<211> 7
<212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic

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Asp Lys Val Gly Leu Ser Val
1 5

<210> 387

<211> 7

<212> PRT
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<220>
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<400> 387
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1 5

<210> 388
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 388
Leu Asp Gly Met Ile Val Lys
1 5

<210> 389
<211> 7
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<220>
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<400> 389
Arg Tyr Pro Leu Ala Gly Gly
1 5

<210> 390
<211> 7
<212> PRT
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<220>
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<400> 390
Phe Thr Asp Gly Glu Asp Lys
1 5

<210> 391
<211> 7
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 391
Arg Ser Thr Glu His Met Ser
1 5

<210> 392
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 392
Ser Gly Arg Arg His Glu Leu
1 5

<210> 393
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 393
Ser Ser Ser Arg Val Arg Ser
1 5

<210> 394
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 394

Tyr His Arg Ser Val Gly Arg

1

5

<210> 395

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 395

Pro Leu Leu Arg Pro Pro His

1

5

<210> 396

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 396

Ser Asp Lys Leu Gly Phe Val

1

5

<210> 397

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic

<400> 397

Ala Gly Ser Arg Thr Asn Arg

1

5

<210> 398

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 398

Ile Thr Gln Leu His Lys Thr
1 5

<210> 399

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 399

Ala Arg Cys Leu Val Tyr Arg
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<210> 400

<211> 7

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 400

Gly Tyr Val Ala Val Met Thr
1 5

<210> 401

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 401

Gly Leu Gln Val Lys Trp Val
1 5

<210> 402
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<220>
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<400> 402
Ile Phe Thr Pro Gly Trp Leu
1 5

<210> 403
<211> 7
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<220>
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Lys Gln Thr Ser Arg Phe Leu
1 5

<210> 404
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<220>
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<222> (2)
<223> Tyrosine or Phenylalanine

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 404
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1 5

<210> 405
<211> 7
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 405

Ala Arg Arg Gly Trp Thr Leu
1 5

<210> 406

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 406

Ser Arg Arg Phe Val Gly Gly
1 5

<210> 407

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 407

Gln Leu Thr Gly Gly Cys Leu
1 5

<210> 408

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 408

Ala Leu Glu Arg Arg Ser Leu
1 5

<210> 409
<211> 7
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<220>
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<400> 409
Lys Ala Tyr Phe Arg Trp Arg
1 5

<210> 410
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 410
Arg Trp Leu Ala Trp Thr Val
1 5

<210> 411
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<400> 411
Val Gly Ser Phe Ile Tyr Ser
1 5

<210> 412
<211> 7
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 412
Leu Ser Leu Leu Gly Ile Ala
1 5

<210> 413
<211> 7
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<220>
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<400> 413
Leu Ser Thr Val Leu Trp Phe
1 5

<210> 414
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 414
Ser Leu Ala Met Arg Asp Ser
1 5

<210> 415
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 415
Gly Arg Ser Ser Leu Ala Cys
1 5

<210> 416
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 416
Ser Glu Leu Leu Gly Asp Ala
1 5

<210> 417
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 417
Cys Gly Gly Ala Gly Ala Arg
1 5

<210> 418
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 418
Trp Arg Gln Asn Met Pro Leu
1 5

<210> 419
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 419
Asp Phe Leu Arg Cys Arg Val
1 5

<210> 420
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 420
Gln Ala Gly Leu Arg Cys His
1 5

<210> 421
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<220>
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<400> 421
Arg Ala Leu Tyr Asp Ala Leu
1 5

<210> 422
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<220>
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<400> 422
Trp Val Ser Val Leu Gly Phe
1 5

<210> 423
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 423

Gly Met Ala Val Ser Ser Trp

1

5

<210> 424

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 424

Ser Trp Phe Phe Leu Val Ala

1

5

<210> 425

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic

<400> 425

Trp Gln Ser Val Val Arg Val

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5

<210> 426

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 426

Cys Gly Asn Gly His Ser Cys

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5

<210> 427

<211> 7

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 427
Ala Glu Met Glu Gly Arg Asp
1 5

<210> 428
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 428
Ser Leu Arg Pro Asp Asn Gly
1 5

<210> 429
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 429
Pro Ala Met Gly Leu Ile Arg
1 5

<210> 430
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 430
Leu Ala Gly Gly
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<210> 431

<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<223> 1 to 10 independently selected amino acids

<220>
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<400> 431
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1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 432
<211> 24
<212> PRT
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<220>
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<223> 0 to 10 independently selected amino acids

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 432
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Ala Gly Gly Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa

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<211> 15
<212> PRT
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<220>
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<220>
<223> Description of Artificial Sequence: Synthetic

<400> 433
Tyr Ser Gly Lys Trp Xaa
1 5 10 15

<210> 434
<211> 23
<212> PRT
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<220>
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<223> 1 to 10 independently selected amino acids

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 434
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Gly Ser Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20

<210> 435

<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 435
Cys Cys Phe Thr Asn Phe Asp Cys Tyr Leu Gly Cys
1 5 10

<210> 436
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
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<222> (14)...(23)
<223> 1 to 10 independently selected amino acids

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 436
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Asp Val Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20

<210> 437
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 437

Cys Val Asp Val Cys Cys Asp Gly Cys Pro Val Cys Cys
1 5 10

<210> 438
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 438
Arg Val Pro Leu Ser Gly Asp Val Glu His
1 5 10

<210> 439
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 439
Leu Arg Val Met Ser Phe Thr Ser Gly Gln
1 5 10

<210> 440
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Peptide

<400> 440
Arg Phe Ser Val Gly Ser Leu Phe Gly Ser
1 5 10

<210> 441
<211> 13

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 441
Cys Gly Ala Thr Cys Glu Met Gln Cys Pro Ser Gly Cys
1 5 10

<210> 442
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 442
Gly Arg Gly Glu Ser Pro
1 5

<210> 443
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Peptide

<400> 443
Cys Ala Arg Ala Cys
1 5

<210> 444
<211> 10
<212> PRT
<213> Rattus sp.

<400> 444
Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg
1 5 10

<210> 445
<211> 24
<212> PRT
<213> Rattus sp.

<400> 445
Thr Thr Pro Val Ile Asp Gly His Asn Asp Leu Pro Trp Gln Met Leu
1 5 10 15

Thr Leu Phe Asn Asn Gln Leu Arg
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<210> 446
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Nucleotide

<400> 446
ccgctggtag cgcagatccc tggggacctt g 31

<210> 447
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
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Nucleotide

<400> 447
tctttctaga gctcagagag cactggagga g 31

<210> 448
<211> 411
<212> PRT
<213> Homo sapiens

<400> 448
Met Trp Ser Gly Trp Trp Leu Trp Ser Leu Val Ala Val Cys Thr Ala
1 5 10 15

Asp Phe Phe Arg Asp Glu Ala Glu Arg Ile Met Arg Asp Ser Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asp Met Phe Asn
35 40 45

Asn Arg Leu Gln Asp Glu Arg Ala Asn Leu Thr Thr Leu Ala Gly Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe
65 70 75 80

Trp Ser Val Tyr Thr Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Arg
85 90 95

Arg Thr Leu Glu Gln Met Asp Val Val His Arg Met Cys Arg Met Tyr
100 105 110

Pro Glu Thr Phe Leu Tyr Val Thr Ser Ser Ala Gly Ile Arg Gln Ala
115 120 125

Phe Arg Glu Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
130 135 140

Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr Gln Leu Gly
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Ser Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Thr Gly Asp Ser Glu Pro Gln Ser Gln Gly Leu
180 185 190

Ser Pro Phe Gly Gln Arg Val Val Lys Glu Leu Asn Arg Leu Gly Val
195 200 205

Leu Ile Asp Leu Ala His Val Ser Val Ala Thr Met Lys Ala Thr Leu
210 215 220

Gln Leu Ser Arg Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
225 230 235 240

Val Cys Ala Ser Arg Arg Asn Val Pro Asp Asp Val Leu Arg Leu Val
245 250 255

Lys Gln Thr Asp Ser Leu Val Met Val Asn Phe Tyr Asn Asn Tyr Ile
260 265 270

Ser Cys Thr Asn Lys Ala Asn Leu Ser Gln Val Ala Asp His Leu Asp
275 280 285

His Ile Lys Glu Val Ala Gly Ala Arg Ala Val Gly Phe Gly Gly Asp
290 295 300

Phe Asp Gly Val Pro Arg Val Pro Glu Gly Leu Glu Asp Val Ser Lys
305 310 315 320

Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Ala
325 330 335

Glu Val Lys Gly Ala Leu Ala Asp Asn Leu Leu Arg Val Phe Glu Ala
340 345 350

Val Glu Gln Ala Ser Asn Leu Thr Gln Ala Pro Glu Glu Pro Ile
355 360 365

Pro Leu Asp Gln Leu Gly Gly Ser Cys Arg Thr His Tyr Gly Tyr Ser
370 375 380

Ser Gly Ala Ser Ser Leu His Arg His Trp Gly Leu Leu Leu Ala Ser
385 390 395 400

Leu Ala Pro Leu Val Leu Cys Leu Ser Leu Leu
405 410

<210> 449
<211> 409
<212> PRT
<213> Sus scrofa

<400> 449
Met Trp Thr Ser Trp Trp Leu Trp Pro Leu Val Ala Val Cys Ala Ala
1 5 10 15

Asp Gln Phe Arg Asp Leu Ala Val Arg Ile Met Gln Asp Thr Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Leu Phe Asn
35 40 45

Asn Gln Leu Gln Asp Pro Gly Ala Asn Leu Ser Ser Leu Ala His Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Lys Ala Gly Phe Val Gly Gln Phe
65 70 75 80

Trp Ser Ala Tyr Val Pro Cys Asp Thr Gln Asn Arg Asp Ala Val Lys
85 90 95

Arg Thr Leu Glu Gln Ile Asp Val Ile Gln Arg Met Cys Gln Ala Tyr
100 105 110

Pro Glu Thr Phe Ala Cys Val Thr Ser Ser Thr Gly Ile Arg Gln Ala
115 120 125

Phe Arg Glu Gly Lys Val Ala Ser Leu Val Gly Val Glu Gly Gly His
130 135 140

Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr His Leu Gly
145 150 155 160

Met Arg Tyr Met Thr Leu Thr His Ser Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Thr Gly Asp Asp Lys Ala Gln Ser Gln Gly Leu
180 185 190

Ser His Phe Gly Gln Ser Val Val Lys Glu Met Asn Arg Leu Gly Val
195 200 205

Met Ile Asp Leu Ala His Val Ser Val Ala Thr Met Arg Ala Ala Leu
210 215 220

Lys Leu Ser Gln Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
225 230 235 240

Leu Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
245 250 255

Lys Glu Thr Gly Ser Leu Val Met Val Asn Phe Tyr Asn Asp Tyr Val
260 265 270

Ser Cys Ser Ala Lys Ala Asn Leu Ser Gln Val Ala Asp His Leu Asp
275 280 285

His Ile Lys Lys Val Ala Gly Ala Ala Val Gly Phe Gly Gly Asp
290 295 300

Tyr Asp Gly Val Ser Arg Val Pro Ser Gly Leu Glu Asp Val Ser Lys
305 310 315 320

Tyr Pro Asp Leu Val Ala Glu Leu Leu Arg Arg Gln Trp Thr Glu Ala
325 330 335

Glu Val Arg Gly Ala Leu Ala Asp Asn Leu Leu Arg Val Phe Glu Ala
340 345 350

Val Glu Gln Ala Ser Asn His Ala Gln Val Pro Gly Glu Glu Pro Ile
355 360 365

Pro Leu Gly Gln Leu Glu Ala Ser Cys Arg Thr Asn Tyr Gly Tyr Ser
370 375 380

Ala Ala Pro Ser Leu His Leu Pro Pro Gly Ser Leu Leu Ala Ser Leu
385 390 395 400

Val Pro Leu Leu Leu Ser Leu Pro
405

<210> 450

<211> 410

<212> PRT

<213> Rattus sp.

<400> 450

Met Leu Ile Ile Trp Trp Phe Trp Ser Leu Leu Ala Ile Cys Ala Ser
1 5 10 15

Asp Ser Phe Arg Asn Gln Ala Glu Asn Ile Met Arg Thr Thr Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Met Leu Thr Leu Phe Asn
35 40 45

Asn Gln Leu Arg Lys Ser Glu Ala Asn Leu Ser Ala Leu Ala Glu Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe
65 70 75 80

Trp Ser Ala Tyr Met Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Lys
85 90 95

Arg Ile Leu Glu Gln Ile Asp Val Ile His Arg Met Cys Gln Leu Tyr
100 105 110

Pro Glu Thr Phe Glu Cys Val Thr Asn Ser Ser Asp Ile Leu Gln Ala
115 120 125

Phe Arg Arg Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His

130

135

140

Leu Ile Asp Ser Ser Leu Gly Val Leu Arg Thr Leu Tyr His Leu Gly
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Lys Gly Asp Asp Glu Ala Glu Ser Gln Gly Leu
180 185 190

Ser Pro Phe Gly Lys Leu Val Leu Asn Glu Met Asn Arg Leu Gly Val
195 200 205

Met Ile Asp Leu Ser His Val Ser Val Ala Thr Met Lys Asp Ala Leu
210 215 220

Gln Leu Ser Lys Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
225 230 235 240

Val Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
245 250 255

Lys Ser Thr Asn Ser Leu Val Met Val Asn Phe Tyr Asn Gln Phe Val
260 265 270

Ser Cys Ser Asp Ser Ala Thr Leu Ser Gln Val Ala Asp His Leu Asp
275 280 285

His Ile Lys Lys Val Ala Gly Ala Gly Ala Val Gly Leu Gly Gly Asp
290 295 300

Tyr Asp Gly Val Thr Asn Leu Pro Val Gly Leu Glu Asp Val Ser Lys
305 310 315 320

Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Thr
325 330 335

Glu Val Arg Gly Leu Leu Ala Glu Asn Leu Leu Arg Val Phe Ser Ala
340 345 350

Val Glu Leu Val Ser Asn Ile Met Gln Val Pro Glu Glu Glu Thr Ile
355 360 365

Pro Val Glu Lys Leu Asp Gly Ser Cys Arg Thr Phe Tyr Gly His Ser
370 375 380

Arg Ala Pro Ser Ile His Leu Gln Ile Gly Ala Leu Leu Ala Ser Leu

385

390

395

400

Ala Ser Leu Val Phe Ser Leu His Pro Leu
405 410

<210> 451
<211> 410
<212> PRT
<213> Mus musculus

<400> 451
Met Val Ile Ile Trp Trp Phe Trp Ser Leu Leu Ala Ile Cys Ala Ser
1 5 10 15

Asp Ser Phe Arg Asp Gln Ala Val Ala Ile Met Arg Thr Thr Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Leu Phe Asn
35 40 45

Asn Gln Leu Leu Arg Pro Asp Ala Asp Leu Asn Lys Leu Ala Gln Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Lys Ala Gly Phe Val Gly Gly Gln Phe
65 70 75 80

Trp Ser Ala Tyr Met Pro Cys Asp Thr Gln Asn Lys Asp Ala Val Lys
85 90 95

Arg Thr Leu Glu Gln Met Asp Val Ile His Arg Met Cys Gln Leu Tyr
100 105 110

Pro Glu Thr Phe Met Cys Val Thr Asn Ser Ser Asp Ile Leu Gln Ala
115 120 125

Phe Arg Arg Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
130 135 140

Leu Ile Asp Ser Ser Leu Gly Val Leu Arg Thr Leu Tyr His Leu Gly
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Arg Gly Asp Asp Glu Ala Glu Ser His Gly Leu
180 185 190

Ser Pro Phe Gly Lys Arg Leu Leu Asn Glu Met Thr Arg Leu Gly Val
195 200 205

Met Ile Asp Leu Ser His Val Ser Val Ala Thr Met Lys Asp Ala Leu
210 215 220

Gln Ile Ser Arg Ala Pro Val Ile Phe Ser His Ser Ser Ala Tyr Ser
225 230 235 240

Leu Cys Pro His Arg Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
245 250 255

Lys Asn Thr Ser Ser Leu Val Met Val Asn Phe Phe Ser Asn Phe Val
260 265 270

Ser Cys Ser Asp Ser Ala Thr Leu Pro Gln Val Ala Asp His Leu Asp
275 280 285

His Ile Lys Lys Val Ala Gly Ala Gly Ala Val Gly Leu Gly Gly Asp
290 295 300

Tyr Asp Gly Val Thr Met Leu Pro Val Gly Leu Glu Asp Val Ser Lys
305 310 315 320

Tyr Pro Asp Leu Ile Ala Glu Leu Leu Arg Arg Asn Trp Thr Glu Thr
325 330 335

Glu Val Arg Gly Leu Leu Ala Asp Asn Leu Ile Arg Val Phe Ser Glu
340 345 350

Val Glu Leu Val Ser Ser Asn Met Gln Ser Pro Glu Glu Val Pro Ile
355 360 365

Thr Leu Lys Glu Leu Asp Gly Ser Cys Arg Thr Tyr Tyr Gly Tyr Ser
370 375 380

Gln Ala His Ser Ile His Leu Gln Thr Gly Ala Leu Val Ala Ser Leu
385 390 395 400

Ala Ser Leu Leu Phe Arg Leu His Leu Leu
405 410

<210> 452
<211> 410
<212> PRT
<213> Oryctolagus cuniculus

<400> 452

Met Trp Thr Ser Trp Trp Leu Trp Pro Leu Val Ala Val Cys Thr Ala
1 5 10 15

Asp Ser Phe Leu Asp Gln Ala Val Gln Ile Leu Arg Val Thr Pro Val
20 25 30

Ile Asp Gly His Asn Asp Leu Pro Trp Gln Leu Leu Asn Lys Phe Asn
35 40 45

Asn Arg Leu Gln Asp Ser Arg Ala Asn Leu Thr Val Leu Ala Asp Thr
50 55 60

His Thr Asn Ile Pro Lys Leu Arg Ala Gly Phe Val Gly Gly Gln Phe
65 70 75 80

Trp Ser Ala Tyr Thr Pro Cys Asp Thr Gln Asn Lys Asp Thr Val Arg
85 90 95

Arg Thr Leu Glu Gln Met Asp Val Val His Arg Met Cys Gln Leu Tyr
100 105 110

Pro Glu Thr Phe Leu Cys Val Thr Asp Ser Ala Gly Ile Gln Gln Ala
115 120 125

Phe Arg Glu Gly Lys Val Ala Ser Leu Ile Gly Val Glu Gly Gly His
130 135 140

Ser Ile Asp Ser Ser Leu Gly Val Leu Arg Ala Leu Tyr Arg Leu Gly
145 150 155 160

Met Arg Tyr Leu Thr Leu Thr His Asn Cys Asn Thr Pro Trp Ala Asp
165 170 175

Asn Trp Leu Val Asp Arg Gly Asp Asp Glu Ala Gln Ser Gly Gly Leu
180 185 190

Ser Val Phe Gly Gln Arg Val Val Arg Glu Met Asn Arg Leu Gly Val
195 200 205

Met Ile Asp Leu Ala His Val Ser Val Ala Thr Met Lys Ala Ala Leu
210 215 220

Gln Leu Ser Thr Ala Pro Val Ile Phe Ser His Ser Ser Ala Phe Thr
225 230 235 240

Val Cys Ala His Lys Arg Asn Val Pro Asp Asp Val Leu Gln Leu Val
245 250 255

Lys Glu Thr Gly Ser Leu Val Met Val Asn Phe Tyr Asn Asp Tyr Val
260 265 270

Ser Cys Ala Ser Glu Ala Thr Leu Ser Gln Val Ala Asp His Leu Asp
275 280 285

Tyr Ile Lys Asn Val Ala Gly Ala Ala Val Arg Phe Gly Gly Asp
290 295 300

Phe Asp Gly Val Thr Arg Leu Pro Val Gly Leu Glu Asp Val Ser Lys
305 310 315 320

Tyr Pro Asp Leu Val Ala Glu Leu Leu Arg Arg Gly Trp Thr Glu Ala
325 330 335

Glu Val Arg Gly Ala Leu Ala Glu Asn Leu Leu Arg Val Phe Arg Glu
340 345 350

Val Glu Gln Val Ser Asn Gln Ala Gln Val Pro Glu Glu Glu Pro Ile
355 360 365

Ser Leu Glu Gln Leu Gly Gly Ser Cys Arg Thr Gln Tyr Gly Tyr Ser
370 375 380

Glu Ala Pro Ser Leu His Arg Arg Pro Gly Ala Leu Leu Ala Ser Leu
385 390 395 400

Ser Leu Leu Leu Ser Leu Gly Leu Leu
405 410